



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,791	08/29/2003	James McSwiggen	03-332-B (400.126)	3409
20306	7590	10/23/2006		
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP				
300 S. WACKER DRIVE				
32ND FLOOR				
CHICAGO, IL 60606				
EXAMINER				
CHONG, KIMBERLY				
ART UNIT		PAPER NUMBER		
1635				

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Art Unit: 1635

**Notice to Comply**

***CRF Sequence Listing***

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

In the instant case, Applicants have submitted a substitute CRF copy of the sequence listing in the reply filed on 09/29/2006; however, the Office's STIC Biotechnology Systems Branch is unable to process the substitute CRF for the reasons given on the attached Raw Sequence Listing Error Report. Further, the Examiner is unable to search and examine the claims of the instant application, specifically with regard to SEQ ID NO. 225, because SEQ ID NO. 225 has not been submitted.

Applicants are requested to resubmit the sequence listing in corrected form along with the necessary papers and statements.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory

Art Unit: 1635

period. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Chong whose telephone number is 571-272-3111. The examiner can normally be reached Monday thru Friday between 7-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached at 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll-free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Kimberly Chong  
Examiner  
Art Unit 1635



SEAN MCGARRY  
PRIMARY EXAMINER

<b>Notice to Comply</b>	Application No. 10/652,791	Applicant(s) <b>McSwiggen et al.</b>	
	Examiner Chong	Art Unit 1635	

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS  
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE  
DISCLOSURES**

Applicant must file the items indicated below within the time period set in the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☒ 7. Other: Sequence Listing for SEQ ID NO. 225 has not been submitted.

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the specification.**
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (571) 272-2510

For CRF Submission Help, call (571) 272-2501/2583.

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY**

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/652,791B

Source: IFW/6

Date Processed by STIC: 10/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER:

10/652,791 B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
                            (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                            (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                            (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                            This sequence is intentionally skipped  
  
                            Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
                            <210> sequence id number  
                            <400> sequence id number  
                            000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                            Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                            In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                            (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa      "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:42

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.  
 4 McSwiggen, James  
 5 Chowrira, Bharat  
 7 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Platelet-Derived  
 8 Endothelial Cell Growth Factor (ECGF1) Gene Expression Using  
 9 Short Interfering Nucleic Acid (siNA)  
 11 <130> FILE REFERENCE: 400/126 (MBHB 03-332-B)  
 13 <140> CURRENT APPLICATION NUMBER: US 10/652,791B  
 14 <141> CURRENT FILING DATE: 2003-08-29  
 16 <150> PRIOR APPLICATION NUMBER: US 10/422,704  
 17 <151> PRIOR FILING DATE: 2003-04-24  
 19 <150> PRIOR APPLICATION NUMBER: US 10/417,012  
 20 <151> PRIOR FILING DATE: 2003-04-16  
 22 <150> PRIOR APPLICATION NUMBER: PCT/US 03/05346  
 23 <151> PRIOR FILING DATE: 2003-02-20  
 25 <150> PRIOR APPLICATION NUMBER: PCT/US 03/05028  
 26 <151> PRIOR FILING DATE: 2003-02-20  
 28 <150> PRIOR APPLICATION NUMBER: US 60/358,580  
 29 <151> PRIOR FILING DATE: 2002-02-20  
 31 <150> PRIOR APPLICATION NUMBER: US 60/363,124  
 32 <151> PRIOR FILING DATE: 2002-03-11  
 34 <150> PRIOR APPLICATION NUMBER: US 60/386,782  
 35 <151> PRIOR FILING DATE: 2002-06-06  
 37 <150> PRIOR APPLICATION NUMBER: US 60/406,784  
 38 <151> PRIOR FILING DATE: 2002-08-29  
 40 <150> PRIOR APPLICATION NUMBER: US 60/408,378  
 41 <151> PRIOR FILING DATE: 2002-09-05  
 43 <150> PRIOR APPLICATION NUMBER: US 60/409,293  
 44 <151> PRIOR FILING DATE: 2002-09-09  
 46 <150> PRIOR APPLICATION NUMBER: US 60/440,129  
 47 <151> PRIOR FILING DATE: 2003-01-15  
 49 <160> NUMBER OF SEQ ID NOS: 225  
 51 <170> SOFTWARE: PatentIn version 3.2  
 53 <210> SEQ ID NO: 1  
 54 <211> LENGTH: 19  
 55 <212> TYPE: RNA  
 56 <213> ORGANISM: Artificial Sequence  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
 61 <400> SEQUENCE: 1  
 62 cccgccgccg gcaguggac  
 65 <210> SEQ ID NO: 2  
 66 <211> LENGTH: 19

Does Not Comply  
 Corrected Diskette Needed

19

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:42

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

```

67 <212> TYPE: RNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
73 <400> SEQUENCE: 2
74 gccgcugugcg cgaacccug 19
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 19
79 <212> TYPE: RNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
85 <400> SEQUENCE: 3
86 gaacccuacg gucccgacc 19
89 <210> SEQ ID NO: 4
90 <211> LENGTH: 19
91 <212> TYPE: RNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
97 <400> SEQUENCE: 4
98 ccgcggggcga ggccgggua 19
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 19
103 <212> TYPE: RNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
109 <400> SEQUENCE: 5
110 accugggugcug ggauccgga 19
113 <210> SEQ ID NO: 6
114 <211> LENGTH: 19
115 <212> TYPE: RNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
121 <400> SEQUENCE: 6
122 agcaagcggg cgagggcag 19
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 19
127 <212> TYPE: RNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
133 <400> SEQUENCE: 7
134 gcgcccuaag caggcccg 19
137 <210> SEQ ID NO: 8

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138 <211> LENGTH: 19  
139 <212> TYPE: RNA

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:42

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

```

140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
145 <400> SEQUENCE: 8
146 gagcgauggc agccuugau 19
149 <210> SEQ ID NO: 9
150 <211> LENGTH: 19
151 <212> TYPE: RNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
157 <400> SEQUENCE: 9
158 ugaccccgga aaccggggc 19
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 19
163 <212> TYPE: RNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
169 <400> SEQUENCE: 10
170 cccacccgc gccugguga 19
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 19
175 <212> TYPE: RNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
181 <400> SEQUENCE: 11
182 acucuccgg ggaagggag 19
185 <210> SEQ ID NO: 12
186 <211> LENGTH: 19
187 <212> TYPE: RNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
193 <400> SEQUENCE: 12
194 gccaggga ucccgaccc 19
197 <210> SEQ ID NO: 13
198 <211> LENGTH: 19
199 <212> TYPE: RNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
205 <400> SEQUENCE: 13
206 cuucgccaga gcccaagca 19
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 19

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211 <212> TYPE: RNA  
212 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:42

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

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214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
217 <400> SEQUENCE: 14
218 agcucccgga gcugaucgg 19
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 19
223 <212> TYPE: RNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
229 <400> SEQUENCE: 15
230 gcaugaagcg agacggagg 19
233 <210> SEQ ID NO: 16
234 <211> LENGTH: 19
235 <212> TYPE: RNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
241 <400> SEQUENCE: 16
242 gccgccugag cgaagcgga 19
245 <210> SEQ ID NO: 17
246 <211> LENGTH: 19
247 <212> TYPE: RNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
253 <400> SEQUENCE: 17
254 acaucagggg cuucguggc 19
257 <210> SEQ ID NO: 18
258 <211> LENGTH: 19
259 <212> TYPE: RNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
265 <400> SEQUENCE: 18
266 ccgcuguggu gaaugggag 19
269 <210> SEQ ID NO: 19
270 <211> LENGTH: 19
271 <212> TYPE: RNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
277 <400> SEQUENCE: 19
278 gcgcgcaggg cgacagau 19
281 <210> SEQ ID NO: 20
282 <211> LENGTH: 19
283 <212> TYPE: RNA

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284 <213> ORGANISM: Artificial Sequence  
286 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:42

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

287 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA  
sense region

289 &lt;400&gt; SEQUENCE: 20

290 ucggggccau gcugauggc

19

293 &lt;210&gt; SEQ ID NO: 21

294 &lt;211&gt; LENGTH: 19

295 &lt;212&gt; TYPE: RNA

296 &lt;213&gt; ORGANISM: Artificial Sequence

298 &lt;220&gt; FEATURE:

299 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA

sense region

301 &lt;400&gt; SEQUENCE: 21

302 ccauccgacu ucggggccau

19

305 &lt;210&gt; SEQ ID NO: 22

306 &lt;211&gt; LENGTH: 19

307 &lt;212&gt; TYPE: RNA

308 &lt;213&gt; ORGANISM: Artificial Sequence

310 &lt;220&gt; FEATURE:

311 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA  
sense region

313 &lt;400&gt; SEQUENCE: 22

314 uggaucugga ggagaccuc

19

317 &lt;210&gt; SEQ ID NO: 23

318 &lt;211&gt; LENGTH: 19

319 &lt;212&gt; TYPE: RNA

320 &lt;213&gt; ORGANISM: Artificial Sequence

322 &lt;220&gt; FEATURE:

323 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA

sense region

325 &lt;400&gt; SEQUENCE: 23

326 cggugcugac ccaggcccu

19

329 &lt;210&gt; SEQ ID NO: 24

330 &lt;211&gt; LENGTH: 19

331 &lt;212&gt; TYPE: RNA

332 &lt;213&gt; ORGANISM: Artificial Sequence

334 &lt;220&gt; FEATURE:

335 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA

sense region

337 &lt;400&gt; SEQUENCE: 24

338 uggcucaguc gggacagca

19

341 &lt;210&gt; SEQ ID NO: 25

342 &lt;211&gt; LENGTH: 19

343 &lt;212&gt; TYPE: RNA

344 &lt;213&gt; ORGANISM: Artificial Sequence

346 &lt;220&gt; FEATURE:

347 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA

sense region

349 &lt;400&gt; SEQUENCE: 25

350 agcuggagug gccagaggc

19

353 &lt;210&gt; SEQ ID NO: 26

354 &lt;211&gt; LENGTH: 19

355 &lt;212&gt; TYPE: RNA

356 &lt;213&gt; ORGANISM: Artificial Sequence

358 <220> FEATURE:

359 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA  
sense region

10/652,791B

Page 10

<210> 207  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 5'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> 3'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (1)..(19)  
<223> n stands for any ribonucleotide

<400> 207  
nnnnnnnnnn nnnnnnnnnn t

21

See item # 13  
on error summary  
sheet.

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

Which  
Ribonucleotide  
does "N"  
represent?

Invalid  
response



RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 10/03/2006  
 PATENT APPLICATION: US/10/652,791B      TIME: 10:37:43

Input Set : E:\03-332-B\_Sep 2006.txt  
 Output Set: N:\CRF4\10032006\J652791B.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:207; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:208; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:209; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:210; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:211; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:212; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:213; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:214; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:215; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:209; Line(s) 3349  
 Seq#:210; Line(s) 3371  
 Seq#:211; Line(s) 3398  
 Seq#:212; Line(s) 3425  
 Seq#:213; Line(s) 3452  
 Seq#:214; Line(s) 3480  
 Seq#:215; Line(s) 3507

## VERIFICATION SUMMARY

DATE: 10/03/2006

PATENT APPLICATION: US/10/652,791B

TIME: 10:37:43

Input Set : E:\03-332-B\_Sep 2006.txt

Output Set: N:\CRF4\10032006\J652791B.raw

L:3308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207 after pos.:0  
L:3335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0  
L:3357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0  
L:3384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0  
L:3411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211 after pos.:0  
L:3438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0  
L:3466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0  
L:3493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0  
L:3521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0